

***** Welcome to STN International *****

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 Jul 12 BEILSTEIN enhanced with new display and select options,
 resulting in a closer connection to BABS
NEWS 4 Jul 30 BEILSTEIN on STN workshop to be held August 24 in conjunction
 with the 228th ACS National Meeting
NEWS 5 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display
 fields
NEWS 6 AUG 02 CAPLUS and CA patent records enhanced with European and Japan
 Patent Office Classifications
NEWS 7 AUG 02 The Analysis Edition of STN Express with Discover!
 (Version 7.01 for Windows) now available
NEWS 8 AUG 04 Pricing for the Save Answers for SciFinder Wizard within
 STN Express with Discover! will change September 1, 2004
NEWS 9 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage
NEWS 10 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal
 status data from INPADOC
NEWS 11 SEP 01 INPADOC: New family current-awareness alert (SDI) available
NEWS 12 SEP 01 New pricing for the Save Answers for SciFinder Wizard within
 STN Express with Discover!
NEWS 13 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 14 SEP 14 STN Patent Forum to be held October 13, 2004, in Iselin, NJ

NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

***** STN Columbus *****

FILE 'HOME' ENTERED AT 13:37:22 ON 23 SEP 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 13:37:27 ON 23 SEP 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "[HELP USAGETERMS](#)" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 SEP 2004 HIGHEST RN 749824-02-0
 DICTIONARY FILE UPDATES: 22 SEP 2004 HIGHEST RN 749824-02-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
 information enter HELP PROP at an arrow prompt in the file or refer
 to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

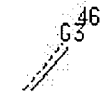
=>

L1 STRUCTURE UPLOADED

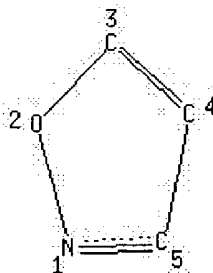
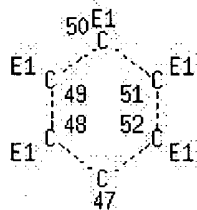
=> d l1

L1 HAS NO ANSWERS

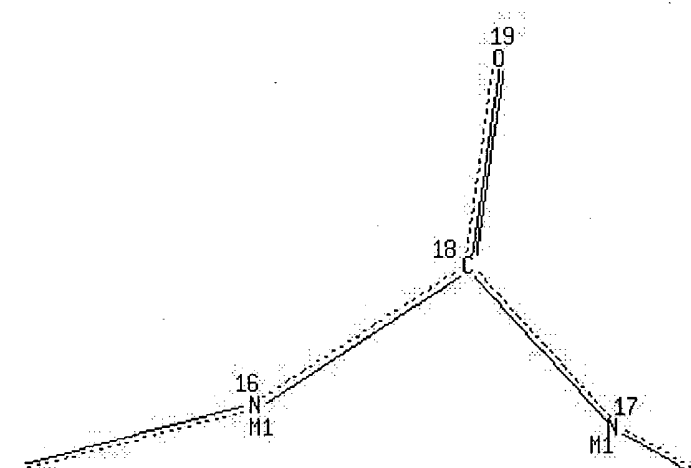
L1 STR



Page 1-B



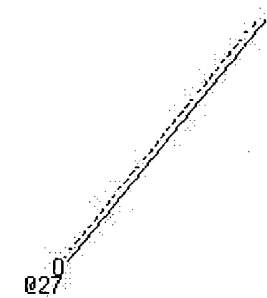
Page 1-D



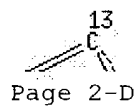
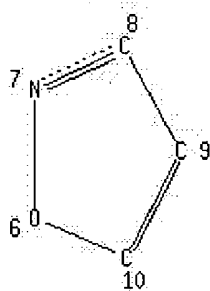
Page 1-E



Page 2-A



Page 2-B



Page 2-D

26 62

Page 2-E

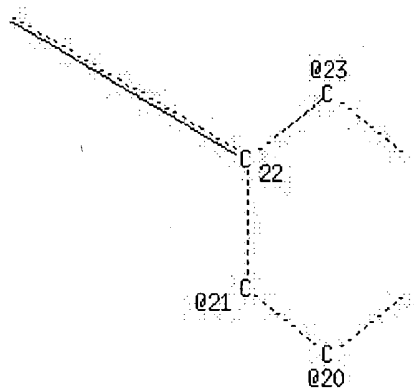
h

eb c

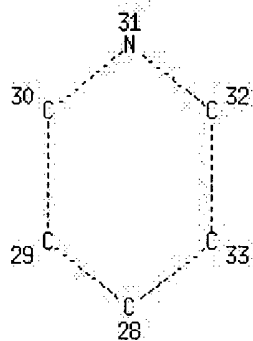
g cg b

cg

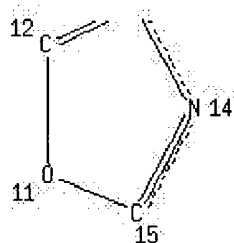
eb



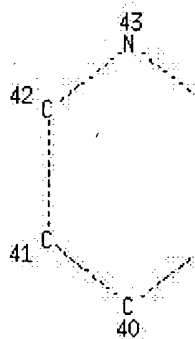
Page 2-F



Page 3-B



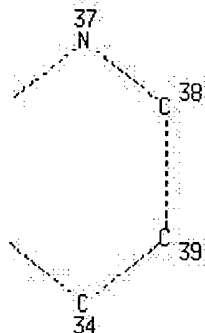
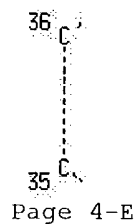
Page 3-D



Page 3-E



Page 3-F



VAR G2=5/10/15

VAR G3=47/34/44

VPA 27-20/21/23/24/25 S

NODE ATTRIBUTES:

HCOUNT	IS M1	AT	16
HCOUNT	IS M1	AT	17
HCOUNT	IS E1	AT	48
HCOUNT	IS E1	AT	49
HCOUNT	IS E1	AT	50
HCOUNT	IS E1	AT	51
HCOUNT	IS E1	AT	52
NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS R	AT	6
NSPEC	IS R	AT	7
NSPEC	IS R	AT	8
NSPEC	IS R	AT	9
NSPEC	IS R	AT	10
NSPEC	IS R	AT	11
NSPEC	IS R	AT	12
NSPEC	IS R	AT	13
NSPEC	IS R	AT	14
NSPEC	IS R	AT	15
NSPEC	IS C	AT	16
NSPEC	IS C	AT	17
NSPEC	IS C	AT	18
NSPEC	IS C	AT	19
NSPEC	IS R	AT	20
NSPEC	IS R	AT	21
NSPEC	IS R	AT	22
NSPEC	IS R	AT	23
NSPEC	IS R	AT	24
NSPEC	IS R	AT	25
NSPEC	IS C	AT	26
NSPEC	IS C	AT	27
NSPEC	IS R	AT	28
NSPEC	IS R	AT	29

NSPEC IS R AT 30
 NSPEC IS R AT 31
 NSPEC IS R AT 32
 NSPEC IS R AT 33
 NSPEC IS R AT 34
 NSPEC IS R AT 35
 NSPEC IS R AT 36
 NSPEC IS R AT 37
 NSPEC IS R AT 38
 NSPEC IS R AT 39
 NSPEC IS R AT 40
 NSPEC IS R AT 41
 NSPEC IS R AT 42
 NSPEC IS R AT 43
 NSPEC IS R AT 44
 NSPEC IS R AT 45
 NSPEC IS C AT 46
 DEFAULT MLEVEL IS ATOM
 MLEVEL IS CLASS AT 16 17 18 19 27 47 48 49 50 51 52
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RSPEC I
 NUMBER OF NODES IS 52

STEREO ATTRIBUTES: NONE

=> s l1
 SAMPLE SEARCH INITIATED 13:47:16 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 0 TO 0
 PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

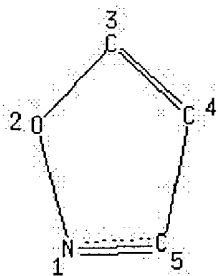
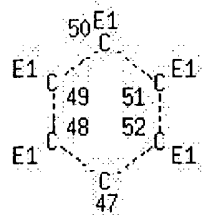
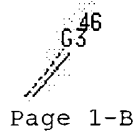
=> s l1 full
 THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
 FULL SEARCH INITIATED 13:47:20 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 6 TO ITERATE

100.0% PROCESSED 6 ITERATIONS 0 ANSWERS
 SEARCH TIME: 00.00.01

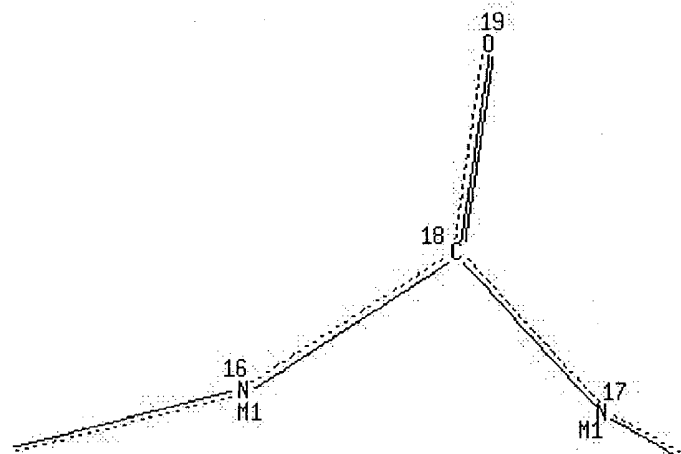
L3 0 SEA SSS FUL L1

=>
 L4 STRUCTURE UPLOADED

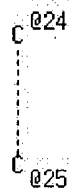
=> d l4
 L4 HAS NO ANSWERS
 L4 STR



Page 1-D



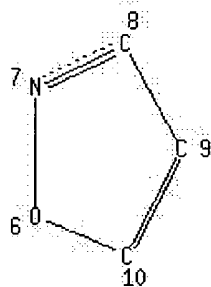
Page 1-E



Page 2-A

027

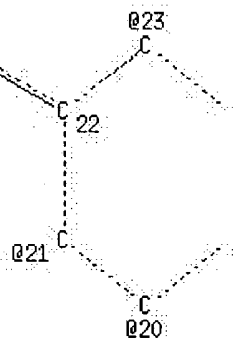
Page 2-B



Page 2-D

26 027

Page 2-E



Page 2-F

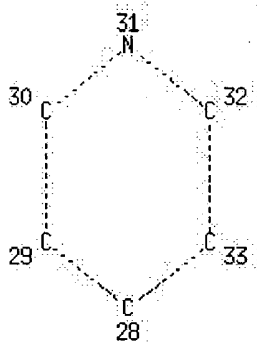
h

eb c

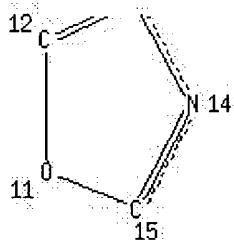
g cg b

cg

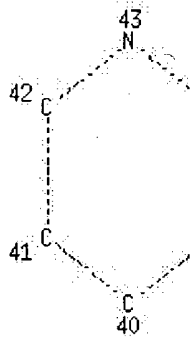
eb



Page 3-B



Page 3-D



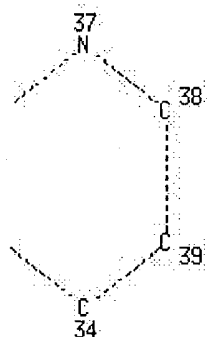
Page 3-E



Page 3-F



Page 4-E



Page 4-F

VAR G2=5/10/15

VAR G3=47/34/44

VPA 27-20/21/23/24/25 S

NODE ATTRIBUTES:

HCOUNT	IS M1	AT	16
HCOUNT	IS M1	AT	17
HCOUNT	IS E1	AT	48
HCOUNT	IS E1	AT	49
HCOUNT	IS E1	AT	50
HCOUNT	IS E1	AT	51
HCOUNT	IS E1	AT	52
NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS R	AT	6
NSPEC	IS R	AT	7
NSPEC	IS R	AT	8
NSPEC	IS R	AT	9
NSPEC	IS R	AT	10
NSPEC	IS R	AT	11
NSPEC	IS R	AT	12
NSPEC	IS R	AT	13
NSPEC	IS R	AT	14
NSPEC	IS R	AT	15
NSPEC	IS C	AT	16
NSPEC	IS C	AT	17
NSPEC	IS C	AT	18
NSPEC	IS C	AT	19
NSPEC	IS R	AT	20
NSPEC	IS R	AT	21
NSPEC	IS R	AT	22
NSPEC	IS R	AT	23
NSPEC	IS R	AT	24
NSPEC	IS R	AT	25
NSPEC	IS C	AT	26
NSPEC	IS C	AT	27
NSPEC	IS R	AT	28
NSPEC	IS R	AT	29
NSPEC	IS R	AT	30
NSPEC	IS R	AT	31
NSPEC	IS R	AT	32
NSPEC	IS R	AT	33
NSPEC	IS R	AT	34
NSPEC	IS R	AT	35
NSPEC	IS R	AT	36

```

NSPEC  IS R      AT  37
NSPEC  IS R      AT  38
NSPEC  IS R      AT  39
NSPEC  IS R      AT  40
NSPEC  IS R      AT  41
NSPEC  IS R      AT  42
NSPEC  IS R      AT  43
NSPEC  IS R      AT  44
NSPEC  IS R      AT  45
NSPEC  IS C      AT  46
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS AT  16 17 18 19 27 47 48 49 50 51 52
DEFAULT ECLEVEL IS LIMITED

```

GRAPH ATTRIBUTES:

```

RSPEC I
NUMBER OF NODES IS  52

```

STEREO ATTRIBUTES: NONE

=> s 14

```

SAMPLE SEARCH INITIATED 13:47:59 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE

```

```

100.0% PROCESSED      0 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01

```

```

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:   0 TO      0
PROJECTED ANSWERS:      0 TO      0

```

L5 0 SEA SSS SAM L4

=> s 14 full

```

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 13:48:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      0 TO ITERATE

```

```

100.0% PROCESSED      0 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01

```

L6 0 SEA SSS FUL L4

=>

L7 STRUCTURE UPLOADED

=> 17

L7 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
 For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> d 17

L7 HAS NO ANSWERS

L7 STR

=> s 17

SAMPLE SEARCH INITIATED 13:52:02 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 60 TO ITERATE

100.0% PROCESSED 60 ITERATIONS 23 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 736 TO 1664
 PROJECTED ANSWERS: 173 TO 747

L8 23 SEA SSS SAM L7

=>

L9 STRUCTURE UPLOADED

=> s 19

SAMPLE SEARCH INITIATED 13:58:45 FILE 'REGISTRY'
 SAMPLE SCREEN SEARCH COMPLETED - 8 TO ITERATE

100.0% PROCESSED 8 ITERATIONS 6 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 8 TO 329
 PROJECTED ANSWERS: 6 TO 266

L10 6 SEA SSS SAM L9

=> s 19 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
 FULL SEARCH INITIATED 13:58:51 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 185 TO ITERATE

100.0% PROCESSED 185 ITERATIONS 135 ANSWERS
 SEARCH TIME: 00.00.01

L11 135 SEA SSS FUL L9

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	480.12	480.33

FILE 'HCAPLUS' ENTERED AT 13:58:54 ON 23 SEP 2004
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
 PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
 COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is

strictly prohibited.

FILE COVERS 1907 - 23 Sep 2004 VOL 141 ISS 13
FILE LAST UPDATED: 22 Sep 2004 (20040922/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l11

L12 5 L11

=> s l12 and dumas, j?/au

677 DUMAS, J?/AU

L13 3 L12 AND DUMAS, J?/AU

=> d l13, ibib abs fhistr, 1-3

L13 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN



ACCESSION NUMBER: 2004:51821 HCAPLUS

DOCUMENT NUMBER: 140:296858

TITLE: Omega-carboxypyridyl substituted ureas as Raf kinase inhibitors: SAR of the amide substituent

AUTHOR(S): Khire, Uday R.; Bankston, Donald; Barbosa, James; Brittelli, David R.; Caringal, Yolanda; Carlson, Robert; **Dumas, Jacques**; Gane, Todd; Heald, Sarah L.; Hibner, Barbara; Johnson, Jeffrey S.; Katz, Michael E.; Kennure, Nancy; Kingery-Wood, Jill; Lee, Wendy; Liu, Xiao-Gao; Lowinger, Timothy B.; McAlexander, Ian; Monahan, Mary-Katherine; Natero, Reina; Renick, Joel; Riedl, Bernd; Rong, Hong; Sibley, Robert N.; Smith, Roger A.; Wolanin, Donald

CORPORATE SOURCE: Department of Chemistry Research, Bayer Research Center, West Haven, CT, 06516, USA

SOURCE: Bioorganic & Medicinal Chemistry Letters (2004), 14(3), 783-786

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

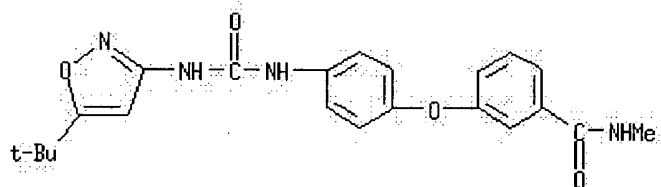
AB Bis-aryl ureas have been disclosed previously as a potent class of Raf kinase inhibitors. Modifications in the amide portion led to an improvement in aq. soly., an important characteristic for an oral drug. Based on this finding, we hypothesize that this portion of the mol. is directed towards the solvent in Raf-1.

IT **228999-58-4**

RL: PAC (Pharmacological activity); BIOL (Biological study)
(structure and Raf kinase inhibitor activity of amide substituent of omega-carboxypyridyl substituted ureas)

RN **228999-58-4** HCAPLUS

CN Benzamide, 3-[4-[[[5-(1,1-dimethylethyl)-3-isoxazolyl]amino]carbonyl]amin
o]phenoxy]-N-methyl- (9CI) (CA INDEX NAME)



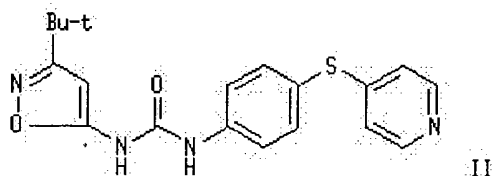
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text 

ACCESSION NUMBER: 1999:425745 HCAPLUS
 DOCUMENT NUMBER: 131:87909
 TITLE: Inhibition of p38 kinase activity using substituted heterocyclic ureas
 INVENTOR(S): Dumas, Jacques; Khire, Uday; Lowinger, Timothy Bruno; Paulsen, Holger; Riedl, Bernd; Scott, William J.; Smith, Roger A.; Wood, Jill E.; Hatoum-Mokdad, Holia; Johnson, Jeffrey; Lee, Wendy; Redman, Aniko
 PATENT ASSIGNEE(S): Bayer Corporation, USA
 SOURCE: PCT Int. Appl., 126 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>WO 9932111</u>	A1	19990701	<u>WO 1998-US26080</u>	19981222
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
<u>CA 2315720</u>	AA	19990701	<u>CA 1998-2315720</u>	19981222
<u>AU 9919971</u>	A1	19990712	<u>AU 1999-19971</u>	19981222
<u>AU 739642</u>	B2	20011018		
<u>EP 1041982</u>	A1	20001011	<u>EP 1998-964709</u>	19981222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
<u>JP 2001526223</u>	T2	20011218	<u>JP 2000-525102</u>	19981222
PRIORITY APPLN. INFO.:			<u>US 1997-995750</u>	A 19971222
			<u>WO 1998-US26080</u>	W 19981222
OTHER SOURCE(S):	MARPAT	131:87909		
GI				



AB A method for treatment of p38-mediated disease other than cancer comprises administration of ANHCONHB [I; A = substituted isoxazolyl, pyrazolyl, thienyl, furyl; B = (substituted) mono-, di-, or tricyclic aryl, heteroaryl contg. ≥ 1 5-6 membered arom. structure contg. 0-4 N, O, or S atoms]. Reaction of 4-(4-pyridinylthio)aniline with 3-tert-butyl-5-isoxazolyl isocyanate in toluene gave title compd. II. In an in vitro p38 kinase assay, I displayed IC₅₀ values of 1-10 μ M.

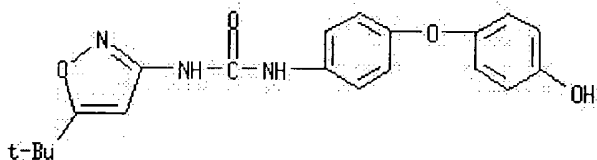
IT 228999-08-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of substituted heterocyclic ureas for treatment of p38 kinase-mediated diseases other than cancer)

RN 228999-08-4 HCAPLUS

CN Urea, N-[5-(1,1-dimethylethyl)-3-isoxazolyl]-N'-[4-(4-hydroxyphenoxy)phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

1

THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citations
References

ACCESSION NUMBER: 1999:425740 HCAPLUS

DOCUMENT NUMBER: 131:73648

TITLE: Inhibition of raf kinase using substituted heterocyclic ureas

INVENTOR(S): Dumas, Jacques; Khire, Uday; Lowinger, Timothy Bruno; Paulsen, Holger; Riedl, Bernd; Scott, William J.; Smith, Roger A.; Wood, Jill E.; Hatoum-Mokdad, Holia; Johnson, Jeffrey; Lee, Wendy; Redman, Aniko

PATENT ASSIGNEE(S): Bayer Corporation, USA

SOURCE: PCT Int. Appl., 163 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

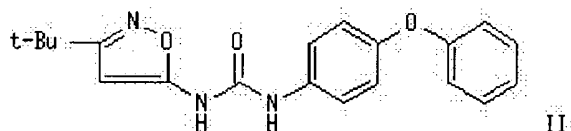
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9932106	A1	19990701	WO 1998-US26078	19981222
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,				

KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
 MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
 TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
 CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2315717	AA	19990701	CA 1998-2315717	19981222
AU 9921989	A1	19990712	AU 1999-21989	19981222
EP 1047418	A1	20001102	EP 1998-965981	19981222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200002618	T2	20010420	TR 2000-200002618	19981222
JP 2001526220	T2	20011218	JP 2000-525097	19981222
BR 9814374	A	20020514	BR 1998-14374	19981222
RU 2232015	C2	20040710	RU 2000-120184	19981222
NO 2000003232	A	20000821	NO 2000-3232	20000621
BG 104597	A	20010228	BG 2000-104597	20000712
PRIORITY APPLN. INFO.:			US 1997-996343	A 19971222
			WO 1998-US26078	W 19981222

OTHER SOURCE(S): MARPAT 131:73648
 GI



AB A method for treatment of cancerous cell growth mediated by raf kinase comprises administration of urea derivs. ANHCONHB [I; A = substituted isoxazolyl, thienyl, thiadiazolyl, furyl, pyrazolyl, etc.; B = (substituted) mono-, di-, or tricyclic aryl, heteroaryl contg. ≥ 1 5-6 membered arom. structure contg. 0-4 N, O, or S atoms]. Reaction of 4-phenyloxyphenyl isocyanate with 5-amino-3-tert-butylisoxazole in methylene chloride and heating at reflux temp. for 2 days gave title compd. II. In an in vitro raf kinase assay, I displayed IC₅₀ values of 1-10 μ M.

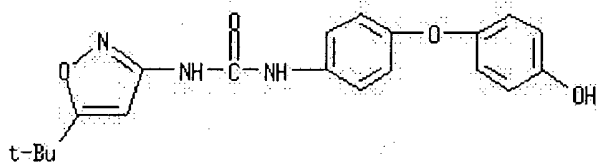
IT **228999-08-4P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of substituted heterocyclic ureas for treatment of cancerous cell growth mediated by raf kinase)

RN **228999-08-4** HCAPLUS

CN Urea, N-[5-(1,1-dimethylethyl)-3-isoxazolyl]-N'-[4-(4-hydroxyphenoxy)phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 13:37:22 ON 23 SEP 2004)

FILE 'REGISTRY' ENTERED AT 13:37:27 ON 23 SEP 2004

L1 STRUCTURE UPLOADED
 L2 0 S L1
 L3 0 S L1 FULL
 L4 STRUCTURE UPLOADED
 L5 0 S L4
 L6 0 S L4 FULL
 L7 STRUCTURE UPLOADED
 L8 23 S L7
 L9 STRUCTURE UPLOADED
 L10 6 S L9
 L11 135 S L9 FULL

FILE 'HCAPLUS' ENTERED AT 13:58:54 ON 23 SEP 2004

L12 5 S L11
 L13 3 S L12 AND DUMAS, J?/AU

=> s l12 not l13

L14 2 L12 NOT L13

=> s l14 and khire, u?/au

41 KHIRE, U?/AU

L15 0 L14 AND KHIRE, U?/AU

=> s l12 and lowinger, t?/au

44 LOWINGER, T?/AU

L16 4 L12 AND LOWINGER, T?/AU

=> s l16 not l13

L17 1 L16 NOT L13

=> d l17, ibib abs fhitstr, 1

L17 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Chem References
--------------	--------------------

ACCESSION NUMBER: 2001:746592 HCAPLUS
 DOCUMENT NUMBER: 136:95577
 TITLE: Discovery of heterocyclic ureas as a new class of raf
 kinase inhibitors: identification of a second
 generation lead by a combinatorial chemistry approach
 AUTHOR(S): Smith, R. A.; Barbosa, J.; Blum, C. L.; Bobko, M. A.;
 Caringal, Y. V.; Dally, R.; Johnson, J. S.; Katz, M.
 E.; Kennure, N.; Kingery-Wood, J.; Lee, W.; Lowinger,
 T. B.; Lyons, J.; Marsh, V.; Rogers, D. H.; Swartz,
 S.; Walling, T.; Wild, H.
 CORPORATE SOURCE: Department of Chemistry Research, Bayer Research
 Center, West Haven, CT, 06516, USA
 SOURCE: Bioorganic & Medicinal Chemistry Letters (2001),
 11(20), 2775-2778
 CODEN: BMCLE8; ISSN: 0960-894X
 PUBLISHER: Elsevier Science Ltd.
 DOCUMENT TYPE: Journal

LANGUAGE: English

AB Heterocyclic ureas, such as N-3-thienyl N'-aryl ureas, have been identified as novel inhibitors of raf kinase, a key mediator in the ras signal transduction pathway. Structure-activity relationships were established, and the potency of the screening hit was improved 10-fold to $IC_{50}=1.7 \mu M$. A combinatorial synthesis approach enabled the identification of a breakthrough lead ($IC_{50}=0.54 \mu M$) for a second generation series of heterocyclic urea raf kinase inhibitors.

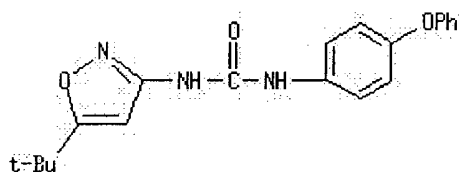
IT 228998-90-1P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(heterocyclic ureas as raf kinase inhibitors)

RN 228998-90-1 HCAPLUS

CN Urea, N-[5-(1,1-dimethylethyl)-3-isoxazolyl]-N'-(4-phenoxyphenyl)- (9CI)
(CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
26.12	506.45

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.80	-2.80

CA SUBSCRIBER PRICE

FILE 'CAOLD' ENTERED AT 14:00:44 ON 23 SEP 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> d his

(FILE 'HOME' ENTERED AT 13:37:22 ON 23 SEP 2004)

FILE 'REGISTRY' ENTERED AT 13:37:27 ON 23 SEP 2004

```
L1          STRUCTURE UPLOADED
L2          0 S L1
L3          0 S L1 FULL
L4          STRUCTURE UPLOADED
L5          0 S L4
L6          0 S L4 FULL
L7          STRUCTURE UPLOADED
L8          23 S L7
L9          STRUCTURE UPLOADED
L10         6 S L9
L11        135 S L9 FULL
```

FILE 'HCAPLUS' ENTERED AT 13:58:54 ON 23 SEP 2004

```
L12         5 S L11
L13         3 S L12 AND DUMAS, J?/AU
L14         2 S L12 NOT L13
L15         0 S L14 AND KHIRE, U?/AU
L16         4 S L12 AND LOWINGER, T?/AU
L17         1 S L16 NOT L13
```

FILE 'CAOLD' ENTERED AT 14:00:44 ON 23 SEP 2004

```
=> s l11
L18         0 L11
```

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.42	506.87
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.80

FILE 'REGISTRY' ENTERED AT 14:00:55 ON 23 SEP 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "[HELP USAGETERMS](#)" FOR DETAILS.

COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 SEP 2004 HIGHEST RN 749824-02-0

DICTIONARY FILE UPDATES: 22 SEP 2004 HIGHEST RN 749824-02-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See [HELP CROSSOVER](#) for details.

Experimental and calculated property data are now available. For more information enter [HELP PROP](#) at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

L19 STRUCTURE UPLOADED

=> d l19

L19 HAS NO ANSWERS

L19 STR

=> s l19

SAMPLE SEARCH INITIATED 14:13:16 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L20 0 SEA SSS SAM L19

=> s l19 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 14:13:20 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 40 TO ITERATE

100.0% PROCESSED 40 ITERATIONS

32 ANSWERS

SEARCH TIME: 00.00.01

L21 32 SEA SSS FUL L19

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	163.82	670.69

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.80

FILE 'HCAPLUS' ENTERED AT 14:13:24 ON 23 SEP 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 23 Sep 2004 VOL 141 ISS 13

FILE LAST UPDATED: 22 Sep 2004 (20040922/ED)

This file contains CAS Registry Numbers for easy and accurate

substance identification.

=> s 121

L22 4 L21

=> s 122 and dumas, j?/au

677 DUMAS, J?/AU

L23 2 L22 AND DUMAS, J?/AU

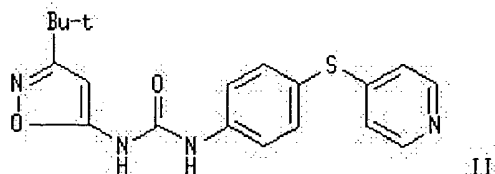
=> d 123, ibib abs fhitr, 1-2

L23 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Dumas
References

ACCESSION NUMBER: 1999:425745 HCAPLUS
DOCUMENT NUMBER: 131:87909
TITLE: Inhibition of p38 kinase activity using substituted heterocyclic ureas
INVENTOR(S): Dumas, Jacques; Khire, Uday; Lowinger, Timothy Bruno; Paulsen, Holger; Riedl, Bernd; Scott, William J.; Smith, Roger A.; Wood, Jill E.; Hatoum-Mokdad, Holia; Johnson, Jeffrey; Lee, Wendy; Redman, Aniko
PATENT ASSIGNEE(S): Bayer Corporation, USA
SOURCE: PCT Int. Appl., 126 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9932111	A1	19990701	WO 1998-US26080	19981222
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2315720	AA	19990701	CA 1998-2315720	19981222
AU 9919971	A1	19990712	AU 1999-19971	19981222
AU 739642	B2	20011018		
EP 1041982	A1	20001011	EP 1998-964709	19981222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001526223	T2	20011218	JP 2000-525102	19981222
PRIORITY APPLN. INFO.:			US 1997-995750	A 19971222
			WO 1998-US26080	W 19981222
OTHER SOURCE(S):		MARPAT 131:87909		
GI				



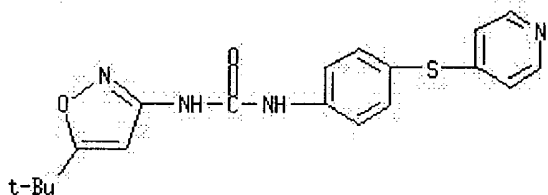
AB A method for treatment of p38-mediated disease other than cancer comprises administration of ANHCONHB [I; A = substituted isoxazolyl, pyrazolyl, thienyl, furyl; B = (substituted) mono-, di-, or tricyclic aryl, heteroaryl contg. ≥ 1 5-6 membered arom. structure contg. 0-4 N, O, or S atoms]. Reaction of 4-(4-pyridinylthio)aniline with 3-tert-butyl-5-isoxazolyl isocyanate in toluene gave title compd. II. In an in vitro p38 kinase assay, I displayed IC₅₀ values of 1-10 μ M.

IT **228999-10-8P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of substituted heterocyclic ureas for treatment of p38 kinase-mediated diseases other than cancer)

RN 228999-10-8 HCAPLUS

CN Urea, N-[5-(1,1-dimethylethyl)-3-isoxazolyl]-N'-[4-(4-pyridinylthio)phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full
Text

Citing
References

ACCESSION NUMBER: 1999:425740 HCAPLUS
DOCUMENT NUMBER: 131:73648
TITLE: Inhibition of raf kinase using substituted heterocyclic ureas
INVENTOR(S): **Dumas, Jacques**; Khire, Uday; Lowinger, Timothy Bruno; Paulsen, Holger; Riedl, Bernd; Scott, William J.; Smith, Roger A.; Wood, Jill E.; Hatoum-Mokdad, Holia; Johnson, Jeffrey; Lee, Wendy; Redman, Aniko
PATENT ASSIGNEE(S): Bayer Corporation, USA
SOURCE: PCT Int. Appl., 163 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9932106	A1	19990701	WO 1998-US26078	19981222
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,				

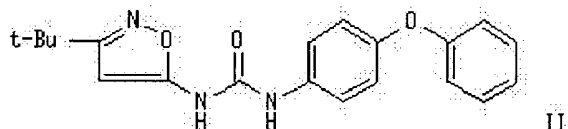
KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
 MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
 TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
 FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
 CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2315717	AA	19990701	CA 1998-2315717	19981222
AU 9921989	A1	19990712	AU 1999-21989	19981222
EP 1047418	A1	20001102	EP 1998-965981	19981222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200002618	T2	20010420	TR 2000-200002618	19981222
JP 2001526220	T2	20011218	JP 2000-525097	19981222
BR 9814374	A	20020514	BR 1998-14374	19981222
RU 2232015	C2	20040710	RU 2000-120184	19981222
NO 2000003232	A	20000821	NO 2000-3232	20000621
BG 104597	A	20010228	BG 2000-104597	20000712

PRIORITY APPLN. INFO.:

US 1997-996343	A	19971222
WO 1998-US26078	W	19981222

OTHER SOURCE(S): MARPAT 131:73648
 GI



AB A method for treatment of cancerous cell growth mediated by raf kinase comprises administration of urea derivs. ANHCONHB [I; A = substituted isoxazolyl, thienyl, thiadiazolyl, furyl, pyrazolyl, etc.; B = (substituted) mono-, di-, or tricyclic aryl, heteroaryl contg. ≥ 1 5-6 membered arom. structure contg. 0-4 N, O, or S atoms]. Reaction of 4-phenyloxyphenyl isocyanate with 5-amino-3-tert-butylisoxazole in methylene chloride and heating at reflux temp. for 2 days gave title compd. II. In an in vitro raf kinase assay, I displayed IC50 values of 1-10 μ M.

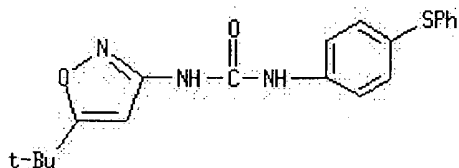
IT **228998-97-8P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of substituted heterocyclic ureas for treatment of cancerous cell growth mediated by raf kinase)

RN 228998-97-8 HCAPLUS

CN Urea, N-[5-(1,1-dimethylethyl)-3-isoxazolyl]-N'-[4-(phenylthio)phenyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 13:37:22 ON 23 SEP 2004)

FILE 'REGISTRY' ENTERED AT 13:37:27 ON 23 SEP 2004

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 0 S L1 FULL
L4 STRUCTURE UPLOADED
L5 0 S L4
L6 0 S L4 FULL
L7 STRUCTURE UPLOADED
L8 23 S L7
L9 STRUCTURE UPLOADED
L10 6 S L9
L11 135 S L9 FULL

FILE 'HCAPLUS' ENTERED AT 13:58:54 ON 23 SEP 2004

L12 5 S L11
L13 3 S L12 AND DUMAS, J?/AU
L14 2 S L12 NOT L13
L15 0 S L14 AND KHIRE, U?/AU
L16 4 S L12 AND LOWINGER, T?/AU
L17 1 S L16 NOT L13

FILE 'CAOLD' ENTERED AT 14:00:44 ON 23 SEP 2004

L18 0 S L11

FILE 'REGISTRY' ENTERED AT 14:00:55 ON 23 SEP 2004

L19 STRUCTURE UPLOADED
L20 0 S L19
L21 32 S L19 FULL

FILE 'HCAPLUS' ENTERED AT 14:13:24 ON 23 SEP 2004

L22 4 S L21
L23 2 S L22 AND DUMAS, J?/AU

=> s l22 not l23

L24 2 L22 NOT L23

=> s l24 and khire, u?/au

41 KHIRE, U?/AU

L25 0 L24 AND KHIRE, U?/AU

=> s l24 and lowinger, t?/au

44 LOWINGER, T?/AU

L26 0 L24 AND LOWINGER, T?/AU

=> s l24 and riedl, b?/au

167 RIEDL, B?/AU

L27 0 L24 AND RIEDL, B?/AU

=> s l24 and scott, w?/au

1980 SCOTT, W?/AU

L28 0 L24 AND SCOTT, W?/AU

=> s l24 and smith, r?/au

13627 SMITH, R?/AU

L29 0 L24 AND SMITH, R?/AU

=> s 124 and wood, j?/au
 3937 WOOD, J?/AU

L30 0 L24 AND WOOD, J?/AU

=> s 124 and hatoum-mokdad, h?/au
 27 HATOUM-MOKDAD, H?/AU

L31 0 L24 AND HATOUM-MOKDAD, H?/AU

=> s 124 and johnson, j?/au
 7804 JOHNSON, J?/AU

L32 0 L24 AND JOHNSON, J?/AU

=> s 124 and lee, w?/au
 8978 LEE, W?/AU

L33 0 L24 AND LEE, W?/AU

=> s 124 and redman, a?/au
 33 REDMAN, A?/AU

L34 0 L24 AND REDMAN, A?/AU

=> s 124 and sibley, r?/au
 193 SIBLEY, R?/AU

L35 0 L24 AND SIBLEY, R?/AU

=> s 124 and renick, j?/au
 14 RENICK, J?/AU

L36 0 L24 AND RENICK, J?/AU

=> d his

(FILE 'HOME' ENTERED AT 13:37:22 ON 23 SEP 2004)

FILE 'REGISTRY' ENTERED AT 13:37:27 ON 23 SEP 2004

L1 STRUCTURE UPLOADED

L2 0 S L1

L3 0 S L1 FULL

L4 STRUCTURE UPLOADED

L5 0 S L4

L6 0 S L4 FULL

L7 STRUCTURE UPLOADED

L8 23 S L7

L9 STRUCTURE UPLOADED

L10 6 S L9

L11 135 S L9 FULL

FILE 'HCAPLUS' ENTERED AT 13:58:54 ON 23 SEP 2004

L12 5 S L11

L13 3 S L12 AND DUMAS, J?/AU

L14 2 S L12 NOT L13

L15 0 S L14 AND KHIRE, U?/AU

L16 4 S L12 AND LOWINGER, T?/AU

L17 1 S L16 NOT L13

FILE 'CAOLD' ENTERED AT 14:00:44 ON 23 SEP 2004

L18 0 S L11

FILE 'REGISTRY' ENTERED AT 14:00:55 ON 23 SEP 2004

L19 STRUCTURE UPLOADED

L20 0 S L19
L21 32 S L19 FULL

FILE 'HCAPLUS' ENTERED AT 14:13:24 ON 23 SEP 2004

L22 4 S L21
L23 2 S L22 AND DUMAS, J?/AU
L24 2 S L22 NOT L23
L25 0 S L24 AND KHIRE, U?/AU
L26 0 S L24 AND LOWINGER, T?/AU
L27 0 S L24 AND RIEDL, B?/AU
L28 0 S L24 AND SCOTT, W?/AU
L29 0 S L24 AND SMITH, R?/AU
L30 0 S L24 AND WOOD, J?/AU
L31 0 S L24 AND HATOUM-MOKDAD, H?/AU
L32 0 S L24 AND JOHNSON, J?/AU
L33 0 S L24 AND LEE, W?/AU
L34 0 S L24 AND REDMAN, A?/AU
L35 0 S L24 AND SIBLEY, R?/AU
L36 0 S L24 AND RENICK, J?/AU

=> d l24, ibib abs thitstr, 1-2

L24 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citations
References

ACCESSION NUMBER: 2002:107924 HCAPLUS
DOCUMENT NUMBER: 136:167692
TITLE: Preparation of new biphenyl and biphenyl-analogous compounds as integrin antagonists
INVENTOR(S): Albers, Markus; Urbahns, Klaus; Vaupel, Andrea; Harter, Michael; Schmidt, Delf; Stelte-Ludwig, Beatrix; Gerdes, Christoph; Stahl, Elke; Keldenich, Jorg; Brueggemeier, Ulf; Lustig, Klemens
PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany
SOURCE: U.S. Pat. Appl. Publ., 256 pp., Division of U.S. Ser. No. 464,237.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>US 2002016461</u>	A1	20020207	<u>US 2001-828514</u>	20010406
<u>US 6677360</u>	B2	20040113		
<u>US 6420396</u>	B1	20020716	<u>US 1999-464237</u>	19991215
<u>US 2004030132</u>	A1	20040212	<u>US 2002-285073</u>	20021031
PRIORITY APPLN. INFO.:			<u>US 1998-172225P</u>	P 19981216
			<u>US 1999-464237</u>	A3 19991215
			<u>US 1999-172217P</u>	P 19991019
			<u>US 2001-828514</u>	A3 20010406

OTHER SOURCE(S): MARPAT 136:167692

AB Biphenyl compds. R1O2CCHR2-U-V-A-B-W-NR3-C-R4 [R1 = H, (un)substituted alkyl, cycloalkyl, aryl, or (un)satd. heterocyclyl; R2 = H, (un)substituted alkyl, cycloalkyl, aryl, or (un)satd. heterocyclyl, alkenyl, alkynyl, -NR2'SO2R2'', -NR2'CO2R2', -NR2'COR2', -NR2'CONR2'2, -NR2'CSNR2'2 (R2' has same definition as R1 and R2'' has same definition as R1 except it is not H); U or W is a direct bond or (un)substituted alkylene; V = (un)substituted alkylene, -NR2'CO- or NR2'SO2-; A and B =

(un)substituted 1,3- or 1,4-bridging phenylene group or a 2,4- or 2,5-bridging thienylene group, each of which may have substituents; C is a direct bond, CMe(:X-R5)-Y-N(R6)- (R5 is absent, H, (un)substituted alkyl or cycloalkyl, NO₂, acyl, carboxylic or carboxylate group or is connected to R3, Y, R4 or R6, if present; R6 is H, (un)substituted alkyl, cycloalkyl, aryl, or (un)satd. heterocyclyl, an alkylamine or alkylamide residue, or is connected to one of R3, R4, Y, or R5, if present, to form a heterocyclic ring system; X = CHNO₂, CHCN, O, N or S; Y is a direct bond or (un)substituted alkylene or alkyne group) or 3,4-dioxo-1,2-cyclobutenediyl-NR6-; R3, R4 = H, (un)substituted alkyl, cycloalkyl, aryl, or (un)satd. heterocyclyl, an alkylamine or alkylamide residue, or is connected to one of R4 (or R3), Y, R5 or R6, if present, to form a heterocyclic ring system] were prepd. as integrin antagonists. For example, (2R,S)-3-[3-(pyridin-3-ylmethylureido)biphenyl-4-yl]-2-[2,4,6-trimethylbenzenesulfonylamino]propanoic acid, prepd. by reactions of resin-bound (2R,S)-3-(4-bromophenyl)-2-(9-fluorenylmethoxycarbonylamino)propanoic acid with sulfonylating, boronic acid, and amine reagents (mesitylenesulfonyl chloride, 3-nitrobenzeneboronic acid, and 2-aminomethylpyridine), showed IC₅₀ = 5 nM for binding to the $\alpha_v\beta_3$ receptor and IC₅₀ = 480 nM in the smooth muscle cell migration test. Thus, the invention compds. are useful for the inhibition of angiogenesis and/or for therapy and prophylaxis of cancer, osteolytic diseases such as osteoporosis, arteriosclerosis, restenosis, rheumatoid arthritis, and ophthalmic disorders (no data).

IT 276261-89-3P

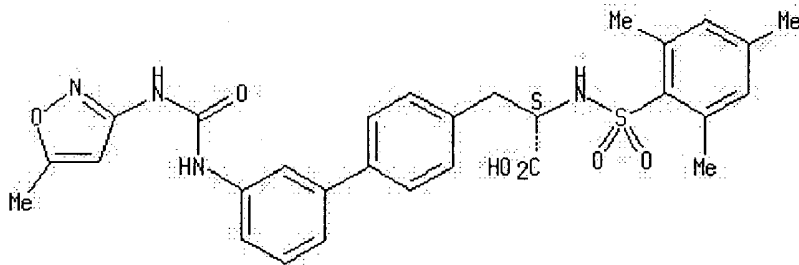
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of biphenyl amino acid analogs as integrin antagonists for inhibition of angiogenesis and treatment of cancer, osteolytic diseases, arteriosclerosis, restenosis, rheumatoid arthritis, and ophthalmic disorders)

RN 276261-89-3 HCAPLUS

CN [1,1'-Biphenyl]-4-propanoic acid, 3'-[[[(5-methyl-3-isoxazolyl)amino]carbonyl]amino]- α -[[[2,4,6-trimethylphenyl)sulfonyl]amino]-, (α S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full
Text

Chemical
References

ACCESSION NUMBER:

2000:421093 HCAPLUS

DOCUMENT NUMBER:

133:43809

TITLE:

Preparation of new biphenyl and biphenyl-analogous compounds as integrin antagonists

INVENTOR(S):

Albers, Markus; Urbahns, Klaus; Vaupel, Andrea; Harter, Michael; Schmidt, Delf; Stelte-ludwig, Beatrix; Gerdes, Christoph; Stahl, Elke; Keldenich,

Jorg; Bruggemeier, Ulf; Lustig, Klemens
 PATENT ASSIGNEE(S): Bayer Aktiengesellschaft, Germany; et al.
 SOURCE: PCT Int. Appl., 360 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000035864	A1	20000622	WO 1999-EP9843	19991213
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1140809	A1	20011010	EP 1999-967934	19991213
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9916367	A	20011030	BR 1999-16367	19991213
TR 200102498	T2	20020221	TR 2001-200102498	19991213
EE 200100317	A	20020815	EE 2001-317	19991213
JP 2002532465	T2	20021002	JP 2000-588126	19991213
NZ 512339	A	20030328	NZ 1999-512339	19991213
AU 761407	B2	20030605	AU 2000-24312	19991213
ZA 2001014432	A	20020530	ZA 2001-14432	20010530
BG 105574	A	20020131	BG 2001-105574	20010607
NO 2001002975	A	20010813	NO 2001-2975	20010615
HR 2001000531	A1	20020831	HR 2001-531	20010716
PRIORITY APPLN. INFO.:			US 1998-213381	A 19981216
			WO 1999-EP9843	W 19991213

OTHER SOURCE(S): MARPAT 133:43809

AB Biphenyl compds. R1O2CCHR2-U-V-A-B-W-NR3-C-R4 [R1 = H, (un)substituted
 alkyl, cycloalkyl, aryl, or (un)satd. heterocyclyl; R2 = H,
 (un)substituted alkyl, cycloalkyl, aryl, or (un)satd. heterocyclyl,
 alkenyl, alkynyl, -NR2'SO2R2'', -NR2'CO2R2'', -NR2'COR2'', -NR2'CONR2'2,
 -NR2'CSNR2'2 (R2' has same definition as R1 and R2'' has same definition
 as R1 except it is not H); U or W is a direct bond or (un)substituted
 alkylene; V = (un)substituted alkylene, -NR2'CO- or NR2'SO2-; A and B =
 (un)substituted 1,3- or 1,4-bridging phenylene group or a 2,4- or
 2,5-bridging thienylene group, each of which may have substituents; C is a
 direct bond, CMe(:X-R5)-Y-N(R6)- (R5 is absent, H, (un)substituted alkyl
 or cycloalkyl, NO2, acyl, carboxylic or carboxylate group or is connected
 to R3, Y, R4 or R6, if present; R6 is H, (un)substituted alkyl,
 cycloalkyl, aryl, or (un)satd. heterocyclyl, an alkylamine or alkylamide
 residue, or is connected to one of R3, R4, Y, or R5, if present, to form a
 heterocyclic ring system; X = CHNO2, CHCN, O, N or S; Y is a direct bond
 or (un)substituted alkylene or alkyne group) or 3,4-dioxo-1,2-
 cyclobutenediyl-NR6-; R3, R4 = H, (un)substituted alkyl, cycloalkyl, aryl,
 or (un)satd. heterocyclyl, an alkylamine or alkylamide residue, or is
 connected to one of R4 (or R3), Y, R5 or R6, if present, to form a
 heterocyclic ring system] were prepd. as integrin antagonists. Thus,
 (2R,S)-3-[3-(pyridin-3-ylmethylureido)biphenyl-4-yl]-2-[2,4,6-
 trimethylbenzenesulfonylamino]propanoic acid, prepd. by reactions of
 resin-bound (2R,S)-3-(4-bromophenyl)-2-(9-fluorenylmethoxycarbonylamino)pr

opanoic acid with sulfonylating, boronic acid, and amine reagents (mesitylenesulfonyl chloride, 3-nitrobenzeneboronic acid, and 2-aminomethylpyridine), showed IC50 = 5 nM for binding to the $\alpha\text{v}\beta 3$ receptor and IC50 = 480 nM in the smooth muscle cell migration test.

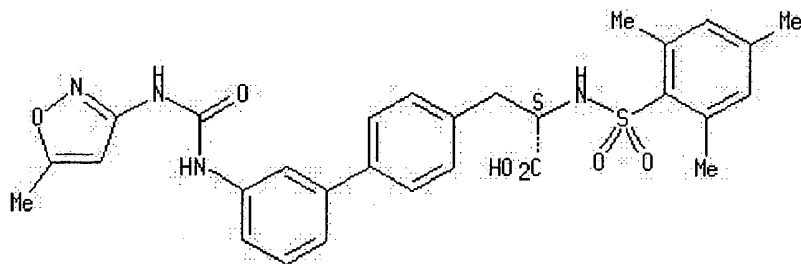
IT **276261-89-3P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of new biphenyl and biphenyl-analogous compds. as integrin antagonists)

RN 276261-89-3 HCAPLUS

CN [1,1'-Biphenyl]-4-propanoic acid, 3'-[[[(5-methyl-3-isoxazolyl)amino]carbonyl]amino]- α -[[[(2,4,6-trimethylphenyl)sulfonyl]amino]-, (α S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file caold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
26.12	696.81

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-2.80	-5.60

CA SUBSCRIBER PRICE

FILE 'CAOLD' ENTERED AT 14:15:26 ON 23 SEP 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> d his

(FILE 'HOME' ENTERED AT 13:37:22 ON 23 SEP 2004)

FILE 'REGISTRY' ENTERED AT 13:37:27 ON 23 SEP 2004

L1 STRUCTURE UPLOADED
L2 0 S L1
L3 0 S L1 FULL
L4 STRUCTURE UPLOADED
L5 0 S L4
L6 0 S L4 FULL
L7 STRUCTURE UPLOADED
L8 23 S L7
L9 STRUCTURE UPLOADED
L10 6 S L9
L11 135 S L9 FULL

FILE 'HCAPLUS' ENTERED AT 13:58:54 ON 23 SEP 2004

L12 5 S L11
L13 3 S L12 AND DUMAS, J?/AU
L14 2 S L12 NOT L13
L15 0 S L14 AND KHIRE, U?/AU
L16 4 S L12 AND LOWINGER, T?/AU
L17 1 S L16 NOT L13

FILE 'CAOLD' ENTERED AT 14:00:44 ON 23 SEP 2004

L18 0 S L11

FILE 'REGISTRY' ENTERED AT 14:00:55 ON 23 SEP 2004

L19 STRUCTURE UPLOADED
L20 0 S L19
L21 32 S L19 FULL

FILE 'HCAPLUS' ENTERED AT 14:13:24 ON 23 SEP 2004

L22 4 S L21
L23 2 S L22 AND DUMAS, J?/AU
L24 2 S L22 NOT L23
L25 0 S L24 AND KHIRE, U?/AU
L26 0 S L24 AND LOWINGER, T?/AU
L27 0 S L24 AND RIEDL, B?/AU
L28 0 S L24 AND SCOTT, W?/AU
L29 0 S L24 AND SMITH, R?/AU
L30 0 S L24 AND WOOD, J?/AU
L31 0 S L24 AND HATOUM-MOKDAD, H?/AU
L32 0 S L24 AND JOHNSON, J?/AU
L33 0 S L24 AND LEE, W?/AU
L34 0 S L24 AND REDMAN, A?/AU
L35 0 S L24 AND SIBLEY, R?/AU
L36 0 S L24 AND RENICK, J?/AU

FILE 'CAOLD' ENTERED AT 14:15:26 ON 23 SEP 2004

=> s l21

L37 0 L21

=> log y

COST IN U.S. DOLLARS

SINCE FILE
ENTRY

TOTAL
SESSION

FULL ESTIMATED COST

0.42

697.23

h eb c g cg b cg

eb

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-5.60

STN INTERNATIONAL LOGOFF AT 14:15:36 ON 23 SEP 2004